TSD File Inventory Index

Date: Janey 24, 2007 Initial: UM Knewad

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Facility Identification Number: OHD	05	utron Pingulection Division 1 2324290	
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The last to the la	

Note:	Transmittal	Letter to	Be	Included	with	Reports
	nante.					•

NOV 26 1990

Mr. Ken Kupcak Vernitron Piezoelectric 232 Forbes Road Bedford, Ohio 44146-5478

Re: Compliance Letter

Vernitron Piezoelectric Division

OHD 052 324 290

Dear Mr. Kupcak:

On June 26, and July 5, 1989, the Ohio Environmental Protection Agency (OEPA), representing the United States Environmental Protection Agency (U.S. EPA), conducted a Resource Conservation and Recovery Act (RCRA) inspection of the above referenced facility. The purpose of the inspection was to determine the compliance status of this facility with respect to the applicable hazardous waste management requirements of Chapter 3734 of the Ohio Revised Code, and also the land disposal restriction regulations as set forth in 40 CFR Part 268 and in revisions to 40 CFR Parts 260-265, 268, 270, and 271.

As a result of the inspection, it appears that the subject facility is in compliance with the land disposal restriction regulations found in 40 CFR Part 268.

Thank you for your cooperation. If you have any questions concerning this letter, please contact Gordon Garcia of my staff at (312) 886-8097.

Sincerely yours,

Sally K. Swanson, Chief IN/MN/OH Enforcement Program Section

Enclosure

cc: Mike Savage, OEPA

Gregory Taylor, NEDO

bcc: Sally Swanson, REB

5HR-12 garcia.walker 6-8093 diskette #5 filename: ken.kup

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State of Ohio Environmental Protection Agency

Northeast District Office .110 E. Aurora Road Twinsburg, Ohio 44087 (216) 425-9171

Richard F. Celeste Governor

L 5. 2

August 15, 1989

RE: VERNITRON PIEZOELECTRIC DIVISION
CUYAHOGA COUNTY
OHD 052-324-290
G/TSD

CERTIFIED MAIL

Ken Kupcak Vernitron Piezoelectric 232 Forbes Road Bedford, Ohio 44146-5478

Dear Mr. Kupcak:

The purpose of this letter is to summarize the results of my recent RCRA inspection of your facility, which occurred on June 26, 28, and July 5, 1989. This inspection was conducted in order to determine your facility's compliance with State and Federal hazardous waste rules and regulations. Cas Stevens and yourself represented Vernitron Piezoelectric. Robert Finkelstein of Toxcon Engineering attended the July 5, 1989 meeting and also represented Vernitron Piezoelectric. Sherry Slone, who was present on June 28, 1989, and myself represented the Ohio EPA.

The following violations were noted during the inspection:

 Rule 3745-52-20(C) of the OAC and 40 CFR 262.20(b), because Vernitron failed to ship their hazardous waste to a facility that is permitted to handle the waste describe on the manifest;

The silver/tetrachlorethylene waste is sent for reclaimation to Eastern Smelting and Refining located in Lynn, Mass. This facility is not permitted to receive this waste since this waste is a land ban waste.

- 2. Rule 3745-52-33 of the OAC and 40 CFR 262.33 because Vernitron failed to offer to placard the initial transporter of hazardous waste.
- 3. Rule 3745-52-34(A)(3) of the OAC and 40 CFR 262.34(a)(3), because Vernitron failed to clearly mark containers with the words "Hazardous Waste":

Two containers of hazardous waste not marked with the words "Hazardous Waste" were noted in the area of the hazardous waste nickel plating solution container storage area.

4. Rule 3745-52-34(A)(2) of the OAC and 40 CFR 262.34(a)(2), because Vernitron failed to clearly mark containers with accumulation dates;

Seven containers of hazardous waste without accumulation dates were noted in the area of the hazardous waste nickel plating solution container storage area.

- 5. Rule 3745-55-73(A) of the OAC and 40 CFR 265.173(a), because the facility had drums containing hazardous wastes which were stored opened.
 - Containers of hazardous wastes were stored opened at the hazardous wastes storage area located near the receiving dock and at the satellite accumulation area outside the nickel plating room.
- 6. Rule 3745-66-74 of the OAC and 40 CFR 265.174, because Vernitron has failed to conduct weekly inspection of the drum storage areas for evidence of leaks or corrosion and failure to document inspections.
 - Documentation shown during the inspecting indicates that the drum storage areas have not been inspected since June 30, 1988.
- 7. Rule 3745-52-34(C)(1)(b) of the OAC and 40 CFR 262.34(c)(1)(ii), because the facility failed to have a drum containing hazardous waste at its satellite accumulation station marked with the words "Hazardous Waste".
 - The drum outside the nickel plating room was not properly marked as containing hazardous waste.
- 8. Rule 3745-52-41 of the OAC, because the facility has failed to submit an annual generator report to the State.
- 9. Rule 3745-65-37(A) of the OAC and 40 CFR 265.37(a) because Vernitron has failed to make the appropriate arrangements with local authorities;
 - Vernitron needs to familiarize local authorities with the types of wastes handled at this facility and associated hazardous of the waste.
- 10. Rule 3745-65-52 of the OAC and 40 CFR 265.52, because Vernitron has failed to maintain a contingency plan as required and must provide":
 - a. Arrangements agreed to by local police department, fire department, hospital, contractors and state and local emergency response teams to coordinate emergency services.
 - b. List of names, addresses and phone numbers of all persons qualified to act as emergency coordinator. One person must be designated as the primary emergency coordinator.
 - c. A list of all emergency equipment, the location of the equipment and a physical description of each item on the list.

- 11. Rule 3745-65-54(A) of the OAC and 40 CFR 265.54, because the facility has failed to amend the contingency plan as the result of changes in the list of emergency coordinators and the list of emergency equipment.
- 12. Rule OAC 3745-65-53(A),(B) and 40 CFR 265.53, because facility has failed to forward copies of the contingency plan to local and state emergency service authorities.
- 13. Rule 3745-65-16 of the OAC and 40 CFR 265.16, because the facility has failed to provide an adequate personnel training program.
- 14. Rule 3745-65-16(B)(C) of the OAC and 40 CFR 265.16(b)(c), because the facility has failed to provide the required annual hazardous waste training for its employees.
- 15. Rule 3745-65-16(D)(E) of the ;OAC and 40 CFR 265.16(d)(e), because Vernitron has failed to maintain for each employee involved in the handling/management of hazardous waste records of their job titles, job descriptions and documented employee training records.
- 16. Rule 3745-58-60(C)(1-3) of the OAC and 40 CFR 266.70(c)(1-3), because the facility failed to document the amount of recoverable precious metal;
 - a. stored at the facility at the beginning of the calendar year;
 - b. generated during the calendar year;
 - c. stored at the facility at the end of the calendar year.

Please address the above generator violations and submit related documentation within 30 days of receipt of this letter.

Storage Violations:

- Facility does not have an adequately written waste analysis plan as required by 40 CFR 265.13(b) and OAC 3745-65-13(B).
- 2. Facility has not maintained a written operating record as require by OAC 3745-65-73 and 40 CFR 265.73.
- 3. Facility has not conducted daily inspections of container storage areas for spills as required by 40 CFR 265.15(b)(4) and OAC 3745-65-15(B)(4).
- 4. Facility has failed to establish financial assurance for closure as required by OAC 3745-66-43 and 40 CFR 265.143.
- 5. Facility does not have a written inspection schedule as required by OAC 3745-65-15 and 40 CFR 265.15.

Page Number August 15, 1989 Ken Kupcak

- Facility failed to obtained a detailed chemical and physical analyses of hazardous wastes stored at the facility, in violation of 40 CFR 265.13(a) and OAC 3745-65-13(A).
- Facility has stored hazardous wastes on-site in excess of allowable generator time limits without first having obtained a hazardous waste installation and operator permit from the Hazardous Waste Facility Board, in violation of Ohio Revised Code Section 3734.02(F).

The facility is liable for compliance with applicable State and Federal Treatment, Storage and Disposal Regulations until such time as when the facility has returned to a generator status.

During the inspection a drum of Toluene dated January 4, 1989, was discovered in the drum storage area near the receiving dock this waste exceeded the permissible 90 day accumulation time of hazardous wastes for generators. A generator who accumulates hazardous waste for more than 90 days is an operator of a storage facility and is subject to the requirements of 40 Code of Federal Regulations (CFR) Parts 264 and 265 and Chapters 3745-54 through 3745-58, 3745-65 through 3745-69 of the Ohio Administrative Code (OAC) and the permit requirements of 40 CFR 270, OAC Chapter 3745-50 and Section 3734.02(F) of the Ohio Revised Code. Vernitron Piezoelectric must therefore submit in the amended closure plan that addresses the outside drum storage area procedures addressing the clean closure of the inside drum storage area. The appropriate copies of the amended closure plan must be submitted to Tom Crepeau by September 8. 1989.

Please note that the Land Ban Restriction Inspecting, completed as part of this inspection is being forwarded to the U.S. EPA, Region V for appropriate followup.

If you have any questions concerning the requests or violations cited in this letter, please feel free to contact me at (216) 425-9171.

Sincerely.

Gregory Tay Environmental Scientist

Division of Solid and Hazardous Waste Management

GT/sp

Enclosures

cc: Garolyn Reierson, DSHWM, Central Office Debby Berg, DSHWM, NEDO

WILLIAM C. RAGALS, JR. VICE PRESIDENT. SECRETARY AND GENERAL COUNSEL

July 31, 1989

17000

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Division of Solid and Hazardous Waste Management State of Ohio Environmental Protection Agency Northeast District Office 2110 East Aurora Road Twinsburg, Ohio 44067

Attn: Mr. Greg Taylor

Re: Piezoelectric Division of Vernitron, Bedford, Ohio

ID #OHD052324290/02-18-0649

Gentlemen:

This is to advise you that on July 27, 1989, this Corporation sold all of the assets of its Piezoelectric Division located in Bedford, Ohio including the land and buildings located at 232 Forbes Road, Bedford, OH 44146 to MM Piezo Products, Inc., a wholly owned subsidiary of the Morgan Crucible Company plc.

Pursuant to the Asset Purchase Agreement dated July 27, 1989 between this Corporation and MM Piezo Products, Inc., this Corporation remains responsible with respect to cleanup, reporting and testing relating to environmental conditions addressed in the Report of Partial Closure Plan for Vernitron's Piezoelectric Division dated October 31, 1988 as submitted to you, and as supplemented from time to time. Accordingly, Vernitron, through its agents and employees, will continue to provide you with all analytical and other data and submit to you a revised closure plan as soon as practicable.

Division of Solid and Hazardous Waste Management State of Ohio EPA

July 28, 1989 Page Two

Toxcon Engineering Company, Inc., Vernitron's environmental consultant, will continue to be retained by Vernitron for the purpose of implementing and concluding the investigation and closure activities.

If you have any further questions in this matter, kindly communicate directly with Mr. Robert Finkelstein of Toxcon Engineering Company or with me.

Very truly yours,

William C. Ragals, dr. Vice President, Secretary

and General Counsel

WCR:ss

cc: Waste Management Division United States Environmental Protection Agency, Region 5
230 South Dearborn Street
Chicago, IL 60604
Attn: Rebecca Strom

RCRA Enforcement Section
Division of Solid and Hazardous Waste Management
State of Ohio Environmental Protection Agency
P.O. Box 1049
1800 Water Mark Drive
Columbus, OH 43266-1049
Attn: Carolyn J. Reierson

Mr. Ron Roch MM Piezo Products, Inc.

RCRA INTERIM STATUS INSPECTION FORM

Facili Addres	ty Name: Vennition Preto vienting s: 222 Finder Rd. 3ext-and on we do-5472	Date of Inspection 6/2. HWFB #: USEPA ID #: CHD 2533	- Zeron
County		Facility Phone #: (2/6) 23	
Facili	ty Contact: Ken Kupcik	Facility Contact Phone#:_ Safety Equipment #:_	
Inspec	tor(s)Name(s): 6 remove Taylor Sagara Signe		
Contain Waste	Ex. SQG SQG Generator 🗸 Transporter	neration/Thermal treatment	126 126
1.	Does the facility produce "discarded materia 3745-51-02(A)?		/N/NA REMARK #
2.	Are they: a. Abandoned(disposed;incinerated;accumulateated prior to disposal)? b. Recycled? c. Inherently waste-like?(F020,F021,F02)	7	<u>y</u>
3.	If recycled or accumulated, treated or stored recycling, is the waste: a. Used in a manner constituting dispose b. Burned for energy recovery? c. Reclaimed? (Refer to Table 1 of 3745-d. Accumulated speculatively?		<u> </u>
4.	Is the material recycled by being: a. Used or reused as an ingredient in as make a product without prior reclamate. b. Used as an effective substitute for concept and the original process from without prior reclamation as a substitute.	tion? commercial products? m which it was generated	
	feedstock?	· <u> </u>	

		1/11/14/4	REMARK 3
5.	Are LDR wastes generated? If so, complete appropriate LDR checklist		Approach Whitempa my py py minera with substitution and a
6.	Has the facility submitted a Part A to Ohio?	X	windstein,
7.	If yes, is it complete and accurate?		(Association of the Control of the C
8.	If not accurate, has a PCR been submitted? If yes, what date was the PCR submitted?	cidyonomorphic little	
9.	Is the facility operating in compliance with the terms and condition of its HWFB permit?	1S	
10.	Has the facility submitted a Part B?		
11.	Was advance notice of the inspection given? If so, how far in advance?	11/	

* In process of withdrawl of permit

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REMARKS. GENERAL INFORMATION.

Include list of wastes being generated/managed at the site and a brief description of site activity and waste handling.

The facility produces the following wastes:

- 1. Silver weste which is reclaimed by Material Processing, St. Rul Minn. The Silverweste is on ceramic products , wipes; gloves; and cans.

 Dog 8/2011
- 2. Tetrachlorethylene w/ Silver (Foci) the silver is reclaimed by Sastern Smelting + Refining, Lynn Mass.
- 3. Tetrachlanethylene (Fool) used in degreasing of parts.
- 4. Ethunel (Deol)
- 5. Nickel Plating Solutions (Foot)
- 6. Dich oremethane- Fluorocarbon TMC (FOO)
- 7, Toluina (FOOS)
- 8. Waste Chronic Acid (Doo7/Doo3)
- The facility does produce a lead waste which is reclaimed and exempt from regulation,

The primary activity at this facility is the manufacture of Lead Zirconate Titanute (PZT) Ceramics,

<u> </u>	<u>3745-52 G</u>	ENERATOR REQUIREMENTS (40 CFR Part 262)	Y/N/NA	REMARK #
4		he wastes generated at this facility been evaluated as ed under 3745-52-11 (262.11)?	····	ements of the second se
2.		his facility generate any hazardous wastes that are excluded egulation under 3745-51-04 (261.4)?		***************************************
3.	exclud [3745- neutra	his facility have waste or waste treatment equipment that is ed from regulation because of totally enclosed treatment 65-01] (265.1(c)(9)) or via operation of an elementary lization unit and/or wastewater treatment unit 65-01] (265.1(c)(10))?		
4.	or con	generator classified as a Small Quantity Generator (SQG) ditionally exempt SQG? complete appropriate checklist.	<u></u>	
\$.		he generator meet the following requirements with respect to eparation, use and retention of the hazardous waste manifest:		
	a.	All hazardous wastes shipped off-site have been accompanied by a completed manifest using the most recently revised USEPA form 8700-22?	V	
	5.	The manifest form used contains all the information required by 3745-52-20 (262.20) and the minimum number of copies required by 3745-52-22 (262.22)?	7	
	¢.	The generator has designated at least one permitted disposal facility and has/will designate an alternate facility or instructions to return waste in compliance with 3745-52-20(C)(D)(E) (262.20)?		
	d.	Prepared manifests have been signed by the generator and initial transporter in compliance with 3745-52-23(A)(1&2) (262.23)?	ÿ	
	e.	The generator has complied with manifest exception reporting requirements in 3745-52-42 (262.42(a))?	NA	anning and a second
	f.	Signed copies of all hazardous waste manifests and any documentation required for Exception Reports are retained for at least 3 years as required by 3745-52-40 (262.40)?		

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			Y/N/NA	<u>REMARK ≱</u>
٥		he generator meet the following hazardous waste pre-transport ements:	<u>~~</u>	was annies and an annies and an annies and an annies and an an annies and an
	a.	Prior to offering hazardous wastes for transport off-site, the waste material is packaged, labeled, and marked in accordance with applicable DOT regulations [3745-52-30,		
	b.	3745-52-31, and 3745-52-32] (262.30, 262.31, 262.32)? Prior to offering hazardous waste for transport off-site, each container with a capacity of 110 gallons or less is affixed with a completed hazardous waste label as required	}	Commence of the Commence of th
	c.	by 3745-52-32 (262.32)? Prior to offering hazardous wastes for transport off-site, the generator meets requirements for properly placarding or offering to properly placard for the initial transporter of the waste material in compliance with 3745-52-33		
•	Does th	(262.33)? ne generator import or export hazardous waste?	N	
		If so, are the wastes handled in accordance with the requirements of 3745-52-50 (262.50)?	NA	
	contair facilit 3745-52	generator elects to accumulate hazardous waste on-site in hers or tanks for 90 days or less without a hazardous waste by installation and operation permit as provided under 2-34 (262.34), are the following requirements with respect to ecumulation met:		
	a.	The containers or tanks are clearly marked with the words "Hazardous Waste"?	N'	
	b.	The date that accumulation began is clearly marked on each container?	\mathcal{N}'	
	C.	If the waste is accumulated in containers, the generator is complying with OAC 3745-66-71 to 3745-66-74 and 3745-66-76 to 3745-66-77? Complete		MENTER OF THE PARTY OF THE PART
		Management of Containers checklist.	\mathcal{N}	

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	7	Y/N/NA	REMARK #
d.	If the waste is accumulated in tanks, the generator is complying with OAC 3745-66-90, 3745-66-91, 3745-66-92, 3745-66-94, and 3745-66-97 to 3745-66-99 except OAC 3745-66-97(C)? Complete Storage and Treatment in Tanks checklist.	ΛA	
e.	If the generator accumulates waste at or near the point of generation which is under the control of the operator of the process generating the waste as allowed by 3745-52-34(C) are the following requirements met:	7011	ummannii Papalikalikan dhanti
·	 Quantities of waste accumulated do not exceed 55 gallons at any time? Quantities of acutely hazardous waste accumulated do not exceed 1 quart at any one time? If the generator is accumulating hazardous waste in 	<u> </u>	
	accordance with e.1 or e.2, above, has the generator marked the containers with words "Hazardous Waste" or with other words identify the contents of the container and is the generator complying with OAC 3745-55-71, 3745-55-72, 3745-55-73(A), 3745-55-76, and 3745-55-77?		
	4. If the generator accumulates hazardous wastes in excess of the amounts listed in either e.1 or e.2, above, did the generator comply with 3745-52-34(A) (262.34(a)) within three (3) days and mark the container holding the excess accumulation with the date the excess accumulation began accumulating?	<u> </u>	April 10 may 200 page 10 may 20 page 10 page
	genertor accumulated hazardous wastes in excess of (90) days?		- Andrews of the second
	generator been granted an extension by the Director/ I Administrator for accumulation in excess of ninety ys?	<u> </u>	
offered a USEPA	generator treated, stored, disposed of, transported or for transportation hazardous waste without having obtained identification number from the Administrator as required 745-52-12 (262.12)?	N	

9.

10.

11.

		Y/N/NA	REMARK #
2.	Does the generator provide a Personnel Training Program in compliance with 3745-65-16(A)(B)(C) (265.16) including instruction in safe equipment operation and emergency procedures, training new employees within 6 months and providing an annual training program refresher course? [3745-52-34(A)(4)] (262.34)	<u> N</u>	
3.	Does the generator keep all of the records required by 3745-65-16(D)(E) (265.16) including written job titles, job descriptions and documented employee training records? [3745-52-34(A)(4)] (262.34)	<u>V</u>	· ·
4.	Has the generator filed annual reports on or before March 1st of the next calendar year as required by 3745-52-41?		wy (S) of the second se
5.	Does the generator comply with the applicable requirements for owners or operators of hazardous waste facilities? Complete "Preparedness and Prevention" and "Contingency Plan and Emergency Procedures" checklists.	<u>_v_</u>	

REMARKS, GENERATOR REQUIREMENTS

OAC 3745-65-et seq. GENERAL FACILITY STANDARDS (40 CFR Part 265, SUBPART 8)

			Y/N/NA	REMARK #
۹.	analys mation	ne owner/operator (o/o) have a detailed chemical and physical is of the waste material containing all of the inforwhich must be known to properly treat or store the as required by 3745-65-13(A)(1) (265.13(a))?	1 	
2.	analyt testing	To have a written waste analysis plan which describes ical parameters, test methods, sampling methods, g frequency and responses to any process changes that fect the character of the waste. [3745-65-13(B)]		
3.	a. b.	Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestocentering the facility? $[3745-65-14(A)(1)]$ (265.14(a)(1)) Would disturbance of the waste cause a violation of the hazardous waste regulations? $[3745-65-14(A)(2)]$ (265.14(a)(2))	.k _N .	
IF BO	OTH GA and	3B ARE NO, MARK QUESTIONS 4 AND 5 NOT APPLICABLE.		
ᡱ.	Does th	ne facility have -		
	а. b.	A 24-hour surveillance system, or An artificial or natural barrier <u>and</u> a means to control entry at all times [3745-65-14(B)(2)(a and b)] (265.14(b)(2))	/	
5.	Keep Ou	ne facility have a sign "Danger-Unauthorized Personnel to at each entrance to the active portion of the facility other locations as necessary. [3745-65-14(C)](265.14(C))	/ -y	was a function of the same
6.	a.	Has the o/o developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. [3745-65-15] (265.15)	<u>N</u>	

			T/N/14M	NEMARK A
	b.	Are areas subject to spills (i.e., loading and unloading areas, etc.) inspected daily when in use and according to other applicable regulations when not in use. [3745-65-15(B)(4)] (265.15(b)(4))	N	(4500) promonents and the state of the state
7.	with 37 ment op employe	o/o provided a Personnel Training Program in compliance 45-65-16(A)(B)(C) including instruction in safe equipteration and emergency response procedures, training new les within 6 months and providing an annual training refresher course. (265.16(a)(b)(c))	N	
8.	includi	o keep all records required by 3745-65-16(D)(E) ng written job titles, job descriptions and ted employee training records. (265.16(d)(e))	<u> </u>	mph diggenerate anno anno anno
9.	does th	table, Reactive or incompatible wastes are handled, e facility meet the following requirements? 5-17](265.17)	-y -	
	a. b. c. d.	Protection from sources of ignition. Physical separation of incompatible waste materials. "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled. Comingling of waste materials is done in a controlled, safe manner as prescribed by 3745-65-17(B) (255.17(b)	-y -y -NA	

OAC 3745-65 FREPAREDNESS AND PREVENTION (40 CFR PART 265 SUBPART C)

		Y/N/NA	REMARK #
	Is the facility operated to minimize the possibilty of fire, explosion, or non-planned release of hazardous waste? [3745-65-31] (265.31)	-	Whole Commission of the Commis
7) to 0	Has there been a fire, explosion or non-planned release of waste at the facility?	11/	#When a more and a little design and a more and a little design and a more and a little design and a littl
3.	<pre>If required due to actual hazards associated with the waste, does the facility have the following equipment: [3745-65-32(A)(B)(C)(D)] (265.32) a.</pre>	- 	
<u>4</u> ,	Is all required spill control and decontamination equipment, fire and communications equipment tested and maintained as necessary? [3745-65-33] (265.33)	- y	Minual
5.	If required due to the actual hazards associated with the waste, do personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled? [3745-65-34] (265.34)	- y	
Ĉ.	If required due to the actual hazards associateed with the waste, is adequate aisle space to allow unobstructed movement of emergency or spill control equipment maintained? [3745-65-35] (265.35)		
7.	If required due to the actual hazards associated with the waste, has the facility attempted to make appropriate arrangements with local authorities to familiarize them with the possible hazards and the facility layout? [3745-65-37(A)] (265.37(a))	<u> 1</u> .	

Y/N/NA	REMARK	12
1 / 13/ 13/3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-50

8. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements, has the refusal been documented. [3745-65-37(B)] (265.37(b))

NF

OAC 3745-65 CONTINGENCY PLAN AND EMERGENCY PROCEDURES (40 CFR PART 265 SUBPART D)

		Y/N/NA	REMARK #
	Does the o/o have a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes which contains the following components for the facility? $[3745-65-52(A)(B)(C)(D)(E)]$ (265.52):		
	a. Actions to be taken by personnel in the event of an emergency incident?	<u> </u>	
	b. Arrangements or agreements with local or state emergency authorities?		
	c. Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator?	N	
	d. A list of all emergency equipment including location, physical description and outline of capabilities?	N	
	e. If required due to the actual hazards associated with the waste handled, an evacuation plan for facility personnel? [3745-65-52(F)] (265.51(f))?	V	
)	Is a copy of the Contingency Plan and any plan revisions maintained	7	**************************************
	on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan? [3745-65-53(A)(B)] (265.53)	<u>N'</u>	a delinente de la constitución d
3.	Is the plan revised in response to rule changes, facility, equipment and personnel changes or failure of the plan? [3745-65-54] (265.54)	<u>N'_</u>	
] * •	Is an emergency coordinator who is familiar with all aspects of site operation and emergency procedures who has the authority to implement all aspects of the Contingency Plan designated at all times (on-site or on-call)? [3745-65-56(A-J)] (265.56)	; /	
4)	If an emergency situation has occurred, has the emergency coordinator implemented all or part of the Contingency Plan and taken all of the actions and made all of the notifications deemed necessary under $3745-65-56(A-J)$. (265.56(a-j))	NA-	

OAC 3745-65 MANIFEST SYSTEM/RECORDS/REPORTING (40 CFR PART 265, SUBPART E)

1.

NOTE: THE FOLLOWING REQ~ \$UIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

		Y/N/NA	REMARK #
facilit	ne o/o maintain a written operating record at the cy as required by 3745-65-73(A) (265.73) which contains lowing information:		
а.	Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date and method pertinent to such treatment, storage or disposal? [3745-65-73(B)(1)] (265.73(b)(1).	v'_	
b.	Common name, EPA Hazardous Waste Identification Number		
C.	and physical state (solid, liquid, gas) of the waste? The estimated (or actual) weight, volume or density of the waste material?	<u>N</u>	
d.	A description of the method(s) used to treat, store or dispose of the waste using the EPA handling codes listed in Table 2 of OAC 3745? (Part 265, Appendix I, Table 2)	<u> </u>	-
e.	The present physical location of each hazardous waste within the facility?	N	
f.	Records of incidents which require implementation of the Contingency Plan?		
g.	FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document	W.C.	
h.	numbers? [3745-65-73(B)(2)] (265.73(b)(2)) Records of any waste analyses and trial tests required to be performed?	N'	
i.	Records of the inspections required under 3745-65-15 (265.15) (General Inspection Requirements)?		
j.	Records of any monitoring, testing, or analytical data required under other Supparts as referenced by 3745-65-73(B)(6);(265.73(b)(6))?		**************************************

			Y/N/NA	REMARK #
	k.	Records of closure cost estimates and post-closure (DISPOSAL ONLY) cost estimates required under OAC 3745-66 (Part 265 Subpart G)?		
2.	Disposa	o/o submitted an annual (bienniel) Treatment-Storage- l Operating Report (by March 1) containing all of the ng information required under 3745-65-75 (265.75)?		Man Carlos Manager
NOTE:	THE FO	LLOWING REQUIREMENTS ARE APPLICABLE ONLY TO OFF-SITE TSDS.	/	
3.	Is one generat	ifests received by the facility signed and dated? copy given to the transporter, one copy sent to the or within 30 days and one copy kept for at least 3 years? 5-71(A)] (265.71)	1	
	a. b.	If shipping papers are used in lieu of manifests (bulk shipments, etc.), are the same requirements met $[3745-65-71(B)]$ (255.71(b))? Are any significant discrepancies in the manifest, as defined in $3745-65-72(A)$ (265.72(a)) noted in writing on the manifest cocument.		
4.	as requ	y manifest discrepancies been reconciled within 15 days ired by 3745-65-72(B) (265.72(b)) or has the o/o submitted uired information to the Director/Regional Administrator?		-1-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
5.	from of an unma require	facility has accepted any unmanifested hazardous wastes f-site sources for treatment, storage, or disposal, has nifested waste report containing all the information d by 3745-65-76(A) (265.76) been submitted to the r/Regional Administrator within 15 days?		

OAC 3745-66 CLOSURE AND POST-CLOSURE (40 CFR PART 265, SUBPART G)

				<u>Y/N/NA</u>	REMARK #
1.		re plan on file at the fac wing elements: [3745-66-12			Approximation of the second
		ion of how each hazardous be closed in accordance w		, √	
	b. A descript	ion of how final closure v ts of 3745-66-11 (265.111)	vill meet the	7	Provincia/2004Provincence
		e of the maximum amount of			46/ ₁ 13
	d. A descript facility e	ion of steps taken to remo quipment containment syste	ems, structures,	7	talenda and the state of the st
	e. The year c	all hazardous waste reside losure is expected to begin rious phases of closure.		/	
	f. A descript closure wi	ion of other activities ne th the performance standar	ds including	7	
	ground wat run-off co	er monitoring, leachate control.	llection, and	<u> </u>	
2.	amended 60 days processes, or close	an (and post-closure plan, ior to any changes in facture dates or 60 days aftents the closure plan?	lity design,	_/_	
3.	for surface impound landfill units been Administrator 180 c	an (and post-closure plan, dment, waste pile, land trong submitted to the Directory and prior to beginning the have tanks, container stores.	eatment or r/Regional e closure process	<u>NA</u>	
4.	for tank, contained to the Director/Reg	an (and post-closure plan, rs storage or incinerator gional Administrator 45 da ure process? [3745-66-12(D	units been submitted ys prior to		
		- 28 -		1	

The facility began closure activities in August of 1988. High levels of contamination has required additional sampling of the outside drum storage area.

		Y/N/NA	REMARK #
5.	Within 90 days of receipt of the final volume of waste or Director's plan approval, if that is later, was all hazardous waste treated, removed, or disposed in accordance with the approved plan? [3745-66-13(A)] (265.113(a))	_NA	
6.	Was closure completed in accordance with the approved plan within 180 days after receipt of final volume of waste or approval of the plan, if that is later? [3745-66-13(B)] (265.113(b))		and the second of the second o
e .	Did the onwer/operator submit to the Director/Regional Administrator, within sixty (60) days after completion of closure, certification by both the owner/operator and an independent registered professional engineer that the facility has been closed in accordance with the approved closure plan? [3745-66-15] (265.115)	<u> NÃ</u>	
9.	What permitted units at the facility have been closed in accordance with an approved Closure Plan?	<u></u>	and the second s
9.	If closure was partial, list-the regulated units which remain in use at the facility:		
10.	If required, has the facility prepared a written post-closure plan? [3745-66-18] (265.118)	NF	
11.	Does the post-closure plan include:		
	 a. A description of proposed ground water monitoring? b. A description of planned maintenance activities? c. The name, address and phone number of person/office to contact during the post-closure period? 	NA NA	
12.	For disposal facilities, has the owner/operator submitted to local land authorities and the Director a survey plat within 60 days after certification of closure? [3745-66-19] (265.119)	_ <i>NR</i> _	

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		ANNA	REMARK #
	owner of the property on which a disposal unit is located ed on the deed that:		
a.	The land has been used to manage hazardous waste and the type, quantity and location of waste?	NA	-
b.	Land use is restricted pursuant to 3745-66-17? [3745-66-10] (265.119)		and the state of t

OAC 3745-66 USE AND MANAGEMENT OF CONTAINERS (40 CFR PART 265, SUBPART I)

	·	Y/N/NA	REMARK #
1.	Are hazardous wastes stored in containers which are: a. Closed [3745-66-73(A)] (265.173)? b. In good condition [3745-66-71] (265.171)? c. Compatible with the wastes stored in them [3745-66-72] (265.172)?	<i>n'</i> 	
2.	Are containers stored closed except when it is necessary to add or remove wastes? [3745-66-73(A)] (265.173(a))	<u>n:</u>	-
3.	Are hazardous waste containers stored, handled and opened in a manner which prevents container rupture or leakage? [3745-66-73(B)] (265.173(b))	-y-	Warrang Street Street, Street Street, Street Street, Street, Street, Street, Street, Street, Street, Street, St
4.	Is the area where containers stored inspected for evidence of leaks or corrosion at least weekly? [3745-66-74] (265.174) [documentation of inspections required under 3745-65-15 for TSDs]	_//_	115t Time 6/30/88
5.	Are containers holding ignitable or reactive waste located at least 50 feet (15 meters) from the facility's property line? [3745-66-76] (265.176)	-	Algorithm of Paris and August
6.	Are containers holding hazardous wastes stored separate from other materials which may interact with the waste in a hazardous manner? [3745-66-77(C)] (265.177(c))	/ _ \	**************************************

RCRA LAND DISPOSAL RESTRICTION INSPECTION

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INSPECTION SUMMARY

RCRA LAND DISPOSAL RESTRICTION INSPECTION APPLICABILITY CHECKLIST

Does the facility handle the following wastes?

				Gen.	Treat	Store	Disp.	Trans.	
A.	<u>F-S</u>	olvent Wasi	tes	,					
	I.	F001			annosti — Leannann,		as the second se	4469	
	2.	F002						<u> سيرين سن</u>	
	3.	F003		de management		201/AUX-22220F-		20 10 10 10 10 10 10 10 10 10 10 10 10 10	
	4.	F004		······································	· ····································	<u></u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	5.	F005			**************************************	**************************************			
		Note:	Use Appendix A to determine whether the facility is misclassifying any of its wastes.						
				• • • • • • • • • • • • • • • • • • • •		/			
B.	Cali	<u>fornia List</u>	Wastes						

1. Liquid hazardous waste (including free liquids associated with any solid or sludge) that contains the following metals at concentrations greater than or equal to those specified

		Gen.	Treat	Store	Disp.	Trans.
Arsenic	500 mg/L			economic Services	**************************************	
Cadmium	100 mg/L		-1144	41.04.04.04.04.04.04.04.04.04.04.04.04.04.	(Cambroon)	
Chromium VI	500 mg/L					
Lead	500 mg/L					
Mercury	20 mg/L		4,-1	annes and the second		and the same of t
Nickel	134 mg/L	-		an April and a		\
Selenium	100 mg/L			<u> </u>		
Thallium	130 mg/L	Accounty (1997)	encertal Alexander	ennesternis)	egitti energy prominen	\$ <u></u>

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		Gen.	Treat	Store	Disp.	Trans.
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RCRA LAND DISPOSAL RESTRICTION INSPECTION

GENERATOR CHECKLIST

GENERATOR REQUIREMENTS

••	F-Solvent Wastes: Does the generator correctly determine the appropriate treatability group of the waste?
	If yes, check the appropriate treatability group.
	Wastewaters containing solvents (less than or equal to 1% TOC by weight) Pharmaceutical wastewater containing spent methylene chloride All other spent solvent wastes
2.	California List Wastes: Does the generator correctly determine the appropriate treatment standard of the waste?
	a. For liquid hazardous waste that contains PCBs at concentrations greater than or equal to 50 but less 500 ppm, is the treatment in accordance with existing TSCA thermal treatment regulations for burning in high efficiency boilers (40 CFR 761.60) or incineration (40 CFR 761.70)?
	Yes No NA
	If yes, specify the method:
	b. For liquid hazardous waste that contains PCBs at
	concentrations greater than or equal to 500 ppm, is the waste incinerated or disposed of by other approved alternate methods (40 CFR 761. 60 (e))?
	the waste incinerated or disposed of by other
	the waste incinerated or disposed of by other approved alternate methods (40 CFR 761, 60 (e))?

			Yes	No.	NA
	If yes	s, check the a	ppropriate treatab	ility group.	
			e solids)	TOC by weigh	nt and less than 1%
	List t	he waste code	and check the co	rrect treatmer	nt standard group.
	Waste	Code	Wastewate	T	Nonwastewater
	70	006	Account of the contract of the		
				,	
		· · · · · · · · · · · · · · · · · · ·			
				W. C.	COLUMN TO THE PARTY OF THE PART
Was	ste Anal	vsis			
<u>was</u>		<u>vsis</u> vent Wastes			
_	F-Solv	vent Wastes Does the gene	rator determine w nent standards?	hether the F-	solvent waste
	F-Solv	vent Wastes Does the gene	rator determine w nent standards?		solvent waste NA
_	F-Solv	vent Wastes Does the gene exceeds treatn	rator determine w nent standards?	No	
_	F-Solv	vent Wastes Does the gene exceeds treatm How was this	rator determine w nent standards? Yes determination ma	No	
_	F-Solv	vent Wastes Does the gene exceeds treatm How was this	rator determine we nent standards? Yes determination madige of waste	No	
_	F-Solv	vent Wastes Does the gene exceeds treatm How was this Knowled	rator determine we nent standards? Yes determination madige of waste Yes any supporting determination determination determination determination made determination made determination determinatio	NoNo ata available	NA for review? Describe
_	F-Solv	vent Wastes Does the gene exceeds treatm How was this Knowled	rator determine we nent standards? Yes determination madige of waste Yes any supporting determination determination determination determination made determination made determination determinatio	No de?No ata available	

	u.	treatment standards upon generation [268.7(a)(2)]?
		Yes No NA
		If yes, specify the waste stream: Park Winneralc. I de work
	C.	Does the generator dilute the F-solvent waste as a substitute for adequate treatment [268.3]?
		Yes No NA
	d.	How does the generator test F-solvent waste when a process or waste stream changes?
2.	Cali	fornia List Wastes
	a.	Does the generator determine whether the waste is a liquid according to the Paint Filter Liquids Test (PFLT method 9095) as described by SW-846?
		Yes No NA
	ъ.	If the waste is determined to be a liquid according to PFLT, is an absorbent added to the waste?
		Yes No NA
		What type of absorbent is used? Check the types of waste to which absorbent is added. Liquid hazardous waste having a pH less than or equal to 2
		Liquid hazardous waste containing metals
		Liquid hazardous waste containing free cyanides
	C.	Does the generator determine whether the concentration levels (not extract or filtrate) in the waste equal or exceed the prohibition levels or whether the waste has a pH of less than or equal to 20 based on:
		- Knowledge of wastes
		Yes No NA

	how this is adequate.
	- Testing Yes No NA
	If yes, list test method used:
d.	Does the generator determine if concentration levels in the PFLT filtrate exceed cyanide and metals concentration levels?
	Yes No NA
	- If yes, list test method used and constituent and concentration levels that exceeded prohibition levels:
e.	Does the generator dilute the waste as a substitute for adequate treatment [268.3]?
	Yes No NA
First	Third Wastes:
a.	Does the generator correctly determine the appropriate treatment standard of the waste?
	Yes No NA
	Note: The treatment standards for first third wastes are given in Appendix D.
b.	Does the generator determine whether the First Third waste exceeds treatment standards upon generation?
	Yes No Soft hammer
	If yes, specify the waste stream: Platine wastes
	How was this determination made?
	- Knowledge of waste
	Yes No
	If yes, is any supporting data available for review? Describe how this is adequate.

		- TCLP
		Yes No NA
		- Total Constituent Analysis
		Yes No NA
		Provide the date of last test, the frequency of testing, and note any problems. Attach test results.
	c.	Does the generator dilute the waste as a substitute for adequate treatment [268.3]?
		Yes No NA
	d.	How does the generator test the waste when a process or waste stream changes?
	Managem	
I		Site Management
		estrict waste or waste that exceeds the treatment standards
		ted, stored, or disposed on-site?
		ted, stored, or disposed on-site? Yes No
	If y	ted, stored, or disposed on-site? Yes No L 90 clays es, the TSD Checklist must be completed.
2		
		Yes No
	. Off	Yes No *
	. Off	Yes No

	s notification contain the following	'	
	EPA Hazardous waste number(s)	Yes	No
	Applicable treatment standards	Yes	No
	Manifest number	Yes	No
	Waste analysis data, if available	Yes	No
Ider <u>Ch</u>	itify off-site treatment or storage fa reland; Liberty Solvents & Chemicals,	cilities: 65x (Techsbarg) (homical Services homical Services
	s the generator ship any waste that the timent standards to an off-site dispos		
	Yes N	o	
	s the generator provide notification ification to the disposal facility [268		
	Yes N	0	
Doe:	s notification contain the following?	,	
	EPA Hazardous waste number(s)	Yes	No
	Applicable treatment standards	Yes	No
	Manifest number	Yes	No
	Waste analysis data, if available	Yes	No
	Certification that the waste meets treatment standards	Yes	No
Iden	tify off-site land disposal facilities:		

	i.	If yes, does the notification contain the	followi	ng inform	ation?	
		EPA Hazardous waste number	**************************************	Yes	www.compiledia	No
		The corresponding treatment standards and all applicable prohibitions		Yes		No
		Manifest number		Yes	COLUMN TO THE PARTY OF THE PART	No
		Waste analysis data, if available	inquinionerezzo—zilu	Yes	4	No
		Date the waste is subject to the prohibitions	****	Yes	**Emmunicanican*******************************	No
	j.	Does the generator retain copies of all no a period of 5 years?				
			<u></u>	Yes		No
D.	Demonstr	ation and Certification - "Soft Hammer"	Wastes	NA		
	а.	Has the generator attempted to locate an and recovery facilities that provide treat greatest environmental benefit [268.8(a)(tment th			nt
			<u> </u>	Yes		No
	ხ.	Has the generator submitted to the Region demonstration and certification contains to document its efforts to locate practical	ng the f	ollowing	inform	ation
		A list of facilities and facility officials contacted?		Yes	<u> – terres anno que metalla</u>	No
		Addresses	«шемпрей»————	Yes	-com-to-yy-	No
		Telephone Numbers	كننيبي	Yes		No
		Contact dates	<u> </u>	Yes		No
		Attach a copy of the demonstration	and ce	rtification	a	
٠	c.	If the generator has determined that the treatment for its wastes, has it sent docu demonstrating why it was not able to obt for the waste? Yes No	mentation tain tres	on to EPA	4	
		If yes, attach a copy of written discussio	n.			

	d.	Does the generator ship his waste off-site for treatment?
		Yes No
		Describe the type of treatment and treatment facilities
	Ĉ.	Did the generator send a copy of its demonstration and certification to the receiving facility with the first shipment of waste?
		Yes No
	f.	Does the generator provide certification with each subsequent shipment of wastes?
		Yes No
	g.	Does the generator provide the following notification to the receiving facility with each shipment of waste?
		(i) EPA Hazardous waste number Yes No
		(ii) Manifest number Yes No
		(iii) Waste analysis data, if available Yes No
	h.	Does the generator retain copies of all notices, demonstrations, and certifications for a period of 5 years?
		Yes No
(i.e	., boile	ers, furnaces, distillation units, wastewater at tanks, elementary neutralization, etc.)
		treatment residuals generated from units or processes exempt er RCRA 264/265? YesNo
	If y	es, list types of waste treatment units and processes:
•		

RCRA LAND DISPOSAL RESTRICTION INSPECTION

TRANSPORTER CHECKLIST

TR.	ANSPORTER REQUIREMENTS NA
A.	Does the transporter accumulate waste for more than 10 days [268.50(A)(3)]?
	Yes No
	If yes, check the appropriate regulatory status: Interim status for storage RCRA permit for storage
	If no, describe inventory controls to ensure that wastes are not stored for more than 10 days:
B.	Does the transporter mix, combine, or recontainerize wastes?
	Yes No
C.	Is the waste treated in an exempt treatment process on-site?
	Yes No

RCRA LAND DISPOSAL RESTRICTION INSPECTION

TSD CHECKLIST

TSD REQUIREMENTS

•	Does the waste analysis plan cover Part 268 requirements [264.13 or 265.13]?							
	o l	F-solvent	Yes	No.	NA			
	0 (California 1	List Yes	No	NA			
	o I	First Third	Yes	No .	NA			
•		es the facili		ative chemical an	d physical analyses of			
			Yes	No				
	a.	What dat	e was the waste and	alysis plan last re	vised?			
	b.	Are analy	yses conducted on-s	ite or off-site?				
				On-site	Off-site			
		Identify	off-site lab:					
		Ic Frenive	ent waste analyzed	using TCLP?				
	C.	12 1 -2014(
	C.	13 1 -3014	Yes	No	NA			
	d.	Is First Tappropria		d using the analy e of the specified ruction technolog	tical method that is BDAT (i.e., total			
		Is First Tappropria	Third waste analyze ate for the objective of analysis for dest ion/fixation technology.	d using the analy e of the specified ruction technolog blogies)?	tical method that is BDAT (i.e., total			
		Is First Tappropria	Third waste analyze ate for the objective of analysis for dest ion/fixation technology. Yes The appropriate a	d using the analy e of the specified ruction technological plogies)? No Inalytical methods irst third wastes v	tical method that is BDAT (i.e., total ies and TCLP for NA (TCLP or total with specified treatment			

	3.	Are the operating records, including analyses and quantities, complete [264.73/265.73]?
		Yes No
В.	Sto	rage (268.50)
	l.	Are restricted wastes stored on-site?
		Yes No
		If no, go to C, Treatment.
	2.	If yes, check the appropriate method.
		Tanks Containers
	3.	Are all containers clearly marked to identify the contents and date(s) entering storage?
		Yes No NA
	4.	Do operating records track the location, quantity of the wastes, and dates that the wastes enter and leave storage?
		Yes No
	5.	Do operating records agree with container labeling?
		Yes No NA
	6.	Do operating records contain copies of the notice, certification, and demonstration (if applicable) from the generator for the past 5 years?
		Yes No

7.	Have wastes been stored for more than I year since the applicable LDR regulations went into effect?
	Yes No NA
	If yes, can the facility show that such accumulation is necessary to facilitate proper recovery, treatment, or disposal? Yes No
	If yes, state how:
8.	Have tanks been emptied at least once per year since the applicable LDR regulations went into effect?
	Yes No NA
	If yes, do the operating records show that the volume of waste removed from tanks annually equals or is more than the tank volume?
	Yes No
9.	Are all tanks clearly marked with a description of the contents, the quantity of wastes received, and date(s) entering storage, or is such information recorded and maintained in the operating record?
	Yes No NA
Tres	<u>atment</u>
1.	Does the facility treat restricted wastes other than in surface impoundments?
	Yes No
	If no, go to D, Treatment in Surface Impoundments.

C.

Des	cribe the treatment processes:		
Same to our			eng gramma na manana di di gramma ya manana da di di di gramma na manana na manana na manana na manana na mana Sangan manana di di di di di gramma na manana na m
ana (for was	es the facility, in accordance with an accordance with an accordance with an accordance plan, determine whether the residurent treatment standards expressed as concepte extract) from all treatment processes atment standards [268.7(b)]?	e or residue e atrations in th	
	Yes	No	
Is d	ilution used as a substitute for treatmen	t?	
	Yes	No	
app	notifications, demonstration, and certificable) prepared by the generators kept rating record?	•	r's
	Yes	No	
	es the facility ship any waste or treatment tment standards to an off-site disposal f		meets the
	Yes	No	_ NA
	es, does the treatment facility provide n ification to the disposal facility?	otification an	d
	Yes	No	
If y	es, does notification contain the following	ng?	
	EPA Hazardous waste number(s)	Yes	}
	Applicable treatment standards	Yes	
	Manifest number	Yes	N
	Waste analysis data, if available	Yes	
	Certification that the waste meets the treatment standards	Yes	, P
	ntify off-site disposal facilities:		

	3.	Does the facility ship any "soft hammer" waste to an off-site disposal facility?
		Yes No NA
		If yes, does the treatment facility send a copy of the generator's demonstration (if applicable) and certification to the disposal facility?
		Yes No
D.	Tres	atment in Surface Impoundments
	ı.	Are restricted wastes placed in surface impoundments for treatment?
		Yes No
		If no, go to E, Land Disposal.
	2.	If yes, did the facility submit to the Agency the waste analysis plan and certification of compliance with minimum technology and ground-water monitoring requirements?
		Yes No
	3.	If the minimum technology requirements have not been met, has a waiver been granted for that unit?
		Yes No NA
	4.	Are representative samples of the sludge and supernatant from the surface impoundment tested separately, acceptably, and in accordance with the sampling frequency and analysis specified in the waste analysis plan?
		Yes No
		Attach test results.
•	5.	Do the hazardous waste residues (sludges or liquids) exceed the treatment standards specified in 268.41, or where no treatment standards are established for a waste, the applicable prohibition levels?
		Yes No

	es the operating record adequately document the results waste analyses performed in accordance with 268.41?
	Yes No
	the hazardous waste residues exceed the treatment adards (268.41) or do not meet the prohibition levels?
	Sludge Yes No
	Supernatant Yes No
a.	If yes, are sludge and supernatant removed adequately on an ann basis?
	Yes No
b.	Are adequate precautions taken to protect liners, and do records indicate that liner integrity is inspected?
	Yes No
c.	Are residues subsequently managed in another surface impoundment?
	Yes No
d.	Are residues treated prior to disposal?
	Yes No

E.	Lanc	i Disposal
	1.	Are restricted wastes placed in land disposal units such as landfills, surface impoundments, waste piles, wells, land treatment units, salt domes/beds, mines/caves, or concrete vault or bunker?
		Yes No
		Note: Do not include surface impoundments addressed in D, Treatment in Surface Impoundments.
		If yes, specify which units and what wastes each unit has received:
	Ž.	Are these wastes disposed of in a new, replacement, or laterally expanded landfill or impoundment that meets the minimum technology requirements (double liner and leachate collection) and groundwater monitoring?
		Yes No
	3.	Does the facility operating record have notices, certifications, and demonstration (if applicable) from generators/storer/treaters for 5 years [268.7(c); 268.7(a),(b)]?
		Yes No
	4.	Does the facility obtain waste analysis data or test the wastes (according to the waste analysis plan) to determine that the wastes comply with the applicable treatment standards [268.7(c)]?
		Yes No
		If yes, at what frequency?
	5.	If restricted wastes that exceed the treatment standards are placed in land disposal units (excluding national capacity variances) [268.30(a)], does facility have an approved waiver based on no migration petition [268.6], an approved case-by-case capacity extension [268.5], or variance [268.44]?
-		Yes No
	6.	Does the facility dispose of restricted wastes that are subject to a national capacity variance?
		Yes No

	disposed wastes that are subject to a national capacity variance, case-by- case extensions [268.5], or no migration petitions [268.6]?				
	Yes No NA				
	What is the volume of the restricted wastes disposed of to date?				
•	If the facility has a case-by-case extension, is the facility making progress as described in progress reports?				
	Yes No NA				

APPENDIX A

SOLVENT IDENTIFICATION CHECKLIST

1.	Does the handler generate any of the follows: constituents (i.e., spent halogenated solve degrensing) as a result of being used in the in pure form or commercial grade?	ats used in	
	tetrachloroethylene trichloroethylene methylene chloride l,l,l-trichloroethane carbon tetrachloride chlorinated fluorocarbons	Yes Yes Yes Yes Yes Yes Yes Yes	No No No No
en, Gran	Does the handler generate any of the fol constituents (i.e., spent halogenated solve being used in the process either in pure f commercial grade?	nts) as a re	2 sult of
	tetrachlorosthylene trichloroethylene methylene chloride 1,1,1-trichloroethane chlorobenzene trichlorofluoromethane 1,1,2-trichloro-1,2,2-trifluoroethane ortho-dichlorobenzene	Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No No No No No No
3.	Does the handler generate any of the fol constituents (i.e., spent nonhalogenated so result of being used in the process either commercial grade?	oivents) as :	2
	xylene acetone ethyl acetate ethyl benzene ethyl ether methyl isobutyl ketone n-butyl alcohol cyclohexanone methanol	Yes	No No No No No No No No
	If the F003 waste stream has been mixed does the resultant mixture exhibit the ign characteristic?	with a soli nitability Yes	d waste,

4.	constituents (i.e., spent nonhalogenated s result of being used in the process either commercial grade?	solvents) as a
	cresols and cresylic acid nitrobenzene	YesNo YesNo
5.	Does the handler generate any of the fo constituents (i.e., spent nonhalogenated s result of being used in the process eithe commercial grade?	solvents) as a
	toluene methyl ethyl ketone carbon disulfide isobutanol pyridine	YesNo YesNo YesNo YesNo YesNo YesNo
6.	Are any of the constituents listed in que 5 used for their "solvent" properties the (dissolve) or mobilize other constituents questions will be helpful in confirming	hat is to solubilize? The following
	(a) Are the constituents used as chemi	ical carriers?YesNo
	If yes, list the constituents.	
	(b) Are the constituents used for degr	reasing/cleaning?
	If yes, list the constituents.	
	Tetrichloro ettyleau, methylene calon	ile.
	112- Lover God-12, 1-to El goro eta ne	
	(c) Are the constituents used as dilue	nts? YesNo
	If yes, list the constituents.	
	(d) Are the constituents used as extra	ctants?YesNo

r	If yes, I	ist the constituents.
	(e) Ar	e the constituents used for fabric scouring?YesNo
	If yes, 1	ist the constituents.
	(f) Ar	e the constituents used as reaction and synthesis media? YesNo
	If yes, 1	ist the constituents.
		ses to questions I through 6 led the inspector to he waste may be an F-solvent, answer question 7.
7.	is consid	of the above constituents spent solvents? (A solvent dered "spent" when it has been used and is no longer vithout being regenerated, reclaimed, or otherwise sed.)
3.	question	aste is a mixture of constituents as determined in s 1 through 6, give the concentration before use of <u>all</u> thents in the solvent mixture/blend. For example:
	5% 2% 25% 68% 100%	methylene chloride trichloroethylene 1,1,1-trichloroethane mineral spirits
	or more	aste stream is a mixture containing a total of 10% (by volume) of one or more of the F001, F002, F004, listed constituents before use, it is a listed waste.
	waste st	pect to the F003 solvent wastes, if, before use, the ream is mixed and contains only F003 constituents, it d waste. For example:
	33% 16% <u>51%</u> 100%	acetone methanol ethyl ether

If the waste stream is a mixture containing F003 constituents and a total of 10% or more of one or more of the F001, F002, F004, and F005 listed constituents before use, it is a listed waste. For example:

50%	xylene	(F003)
12%	TCE	(F001)
<u> 38%</u>	mineral	spirits
100%		

If in light of the above, the handler appears to be generating F001 - F005 hazardous wastes, refer this facility to the enforcement official for followup actions verifying the use of solvents at the facility.

APPENDIX B TREATMENT STANDARDS FOR F-SOLVENTS

	CONCENTRATION (IN MG/L)			
F001-F005 SPENT SOLVENTS	WASTEWATERS	OTHER WASTES		
Acetone	0.05	0.59		
N-butyl	5.0	5.0		
Carbon disulfide	1.05	4.81		
Carbon tetrachloride	.05	.96		
Chlorobenzene	.15	.05		
Cresols (and cresylic acid)	2.82	.75		
Cycohexanone	.125	.75		
1,2-dichlorobenzene	.65	.125		
Ethyl acetate	.05	.75		
Ethyl benzene	.05	.053		
Ethyl ether	.05	.75		
Isobutanol	5.0	5.0		
Methanol	.25	.75		
Methylene chloride	.20	.96		
Methylene chloride (from the pharmac	ceutical			
industry)	0.44	.96		
Methyl ethyl ketone	0.05	0.75		
Methyl isobutyl ketone	0.05	.33		
Nitrobenzene	0.66	0.125		
Pyridine	1.12	0.33		
Tetrachloroethylene	0.079	0.05		
Toluene	1.12	0.33		
1,1,1-Trichloroethane	1.05	0.41		
1,2,2-Trichlor 1,2,2-trifluoroethane	1.05	0.96		
Trichloroethylene	0.062	0.091		
Trichlorofluoromethane	0.05	0.96		
Xylene	0.05	0.15		

DETAILED DESCRIPTION OF FIRST THIRD WASTE CODES

§ 251.31 Wastes

- F006—Wastewater treatment sludges from electropiating operations except from the following processes: (1) Sulfuric acid anodizing of aluminum: (2) tin plating on carbon steel: (3) zinc plating (segregated basis) on carbon steel: (4) aluminum or zinc-aluminum plating on carbon steel: (5) cleaning/stripping associated with tinzinc and aluminum plating on carbon steel: and (6) chemical etching and milling of aluminum.
- F007—Spent cyanide plating bath solutions from electropiating operations.
- F008—Plating bath sludges from the bottom of plating baths from electroplating operations where cyanides are used in the brocess.
- F009—Spent stripping and cleaning bath solutions from electropiating operations where cyanides are used in the process.
- F019—Wastewater treatment sludges from the chemical conversion coating of aluminum.

§ 261.32 Wastes

- K001—Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.
- K004—Wastewater treatment sludge from the production of zinc yellow pigments:
- K008—Over residue from the production of chrome oxide green pigments.
- K011—Bottom stream from the wastewater stripper in the production of acrylonitrile.
- K013—Bottom stream from the acetonitrile column in the production of acrylonitrile. K014—Bottoms from the acetonitrile purifi-
- K014—Bottoms from the acetonitrile purification column in the production of acrylonitrile.
- K015—Still bottoms from the distillation of benzyl chloride.
- K016—Heavy ends or distillation residues from the production of carbon tetrachloride.
- K017—Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.
- K018—Heavy ends from the fractionation column in ethyl chloride production.
- K019—Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.
- K020—Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.
- K021—Aqueous spent antimony catalyst waste from fluoromethanes production.
- K822—Distillation bottom tars from the production of phenol/acetone from cumane.
- K024—Distillation bottoms from the production of phthalic annydnde from naphthalene.
- K025—Distillation bottoms from the production of nitrobenzene by the nitration of benzene.

- K030—Column bottom or heavy ends from the compined production of trichloroethylene and perchloroethylene.
- K031-By-products salts generated in the production of MSMA and cacodylic acid.
- KO35—Wastewater treatment sludges generated in the production of creosote.
- K036—Still bottoms from toluene reclamation distillation in the production of disulfoton.
- K037—Wastewater treatment sludge from the production of disulfoton.
- K044—Wastewater treatment sludges from the manufacturing and processing of expiosives.
- K045—Spent carbon from the treatment of wastewater containing explosives.
- K046—Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.
- K047-Pink/red water from TNT operations.
- K048—Dissolved air flotation (DAF) float from the petroleum refining industry.
- K049—Stop oil emulsion solids from the petroleum refining industry.
- K050—Heat exchange bundle cleaning siudge from the petroleum refining industry.
- K051—API separator sludge from the petroleum refining industry.
- K052—Tank bottoms (leaded) from the petroleum refining industry.
- K060—Ammonia still lime sludge from coking operations.
- K061—Emission control dust/sludge from the primary production of steel in electric furnaces.
- K062—Spent pickle liquor from steel finishing operations in chlorine production.
- K069—Emission control dust/sludge from secondary lead smelting.
- K071—Brine purification muds from the mercury cells process in chlorine production, where separately prepurified brine is not used.
- K073—Chlorinated hydrocarbon waste from the purification step of the diaphragm ceil process using graphite anodes
- K083—Distillation bottoms from aniline production.
- K084—Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organoarsenic compounds.
- K085—Distillation of fractionation column bottoms from the production of chlorobenzenes.
- K086—Solvent washes and sludges; caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of link from pigments, driers, soaps, and stabilizers containing chromium and lead.
- K087—Decanter tank tar sludge from coking operations.
- K099—Unirexted wastewater from the production of 2.4-D.

§ 261.JJO Wastes

K100-Waste leaching solution from acid U007-Acrylamide leaching of emission control dust/sludge U009—Acrylonitrile U010—Mitomycin C from secondary lead smelting. U012-Aniline K101-Distillation tar residues from the dis-U016-Benzic)acridine tillation of aniline-based compounds in U018-Benz(a)anthracene the production of veterinary pharmaceuti-U019-Benzene cals from arsenic or organo-arsenic com-U022-Benzo(a)pyrene counds. U029-Methyl bromide K102-Residue from the use of activated carbon for decolorization in the produc-U031—n-Butanoi U036—Chlordane, technical U037—Chlorobenzene tion of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. K103-Process residues from aniline extrac-U041-n-Chloro-2,3-epoxypropane tion from the production of aniline. U043-Vinyi chloride K104—Combined wastewater streams gener-U044-Chloroform U046—Chloromethyl methyl ether U050—Chrysene U051—Creosote U053—Crotonaldehyde ated from nitrobenzene/aniline produc-K106-Waste water treatment sludge from the mercury cell process in chlorine pro-U061-DDT duction. U063-Dibenz o (a, h) anthracene U064—1.2:7.8 Dibenzopyrene U066—Dibromo-3-chloropropane 1.2-§ 261.33(e) Wastes P001-Warfarin, when present at concentra-U067-Ethylene dibromide tion greater than 0.3% U074—1,4-Dichloro-2-butene U077—Ethane, 1.2-dichloro-U078—Dichloroethylene, 1,1-P004—Aldrin P005—Allyl alcohol P010—Arsenic acid U086-N.N Diethylhydrazine P011—Arsenic (V) oxide U089—Diethyistilbestroi P012-Arsenic (III) oxide U103—Dimethyl suifate P015-Beryllium dust P016-Bis-(chloromethyi) ether U105—2.4-Dinitrotoluene P018-Brucine U108—Dioxane, 1.4-U115—Ethylene oxide U122—Formaldehyde P020—Dinoseb P030-Soluble cyanide salts not elsewhere Ul24-Furan specified P036—Dichlorophenylarsine P037—Dieldrin P039—Disulfoton U129-Lindane U130-Hexacolorocyclopentadiene III33-Hydrazine P041-Diethyl-p-nitrophenyl phosphate U134—Hydrofluoric acid P048-2.4-Dinitrophenoi U137-Indeno(1,2,3-cd)pyrene P050—Endosulfan U151-Mecury P058-Fluoracetic acid. sodium salt U154-Methanoi P059—Heptachlor U155—Methapyrilene P063-Hydrogen cyanide U157-3-Methylcholanthrene U158-4.4-Methylene-bis-(2-chloroaniline) P068-Methyl Hydrazine U159-Methyl ethyl ketone P069-Methyllactonitrile P070-Aldicarb U171-Nitropropane. 2-U177-N-Nitroso-N-methylurea P071-Methyl parathion P081—Nitroglycenne U180-N-Nitrosopyrrolidine P082-N-Nitrosodimethylamine UI85-Pentachloronitrobenzene P084—N-Nitrosomethylvinylamine U188-Phenol P087—Osmium tetraoxide U192-Pronamide P089-Parachion U200-Reserpine P092-Phenylmercuric acetate U209-Tetrachioroethane, 1.1.2.2. P094-Phorace U210-Tetrachloroethylene P097-Famphur U211-Carbon tetrachloride P102-Propargyl alcohol U219-Thiourea P105-Sodium azıde U220-Toluene P108-Strychnine and saits U221-Toluenediamine P110-Tetraethyl lesd U223-Toluene diisocyanate P115-Thallium (I) suifate U226-Methylchloroform P120-Vanadium pentoxide U227-Trichioroethane, 1.1.2-P122-Zinc phosphide, when present at con-U228—Trichloroethylene centrations greater than 10% U237-Uracil mustard P123-Toxaphene U238-Ethyl carbamate U248-Warfarin, when present at concentrations of 0.3% or less U249-Zine phosphide, when present at concentrations of 10% or less

APPENDIX D TREATMENT STANDARDS

daste Type:	Pharmaceuticals Industry Sub Revision	category Wastewater	Nonwastewaters		Wastewaters		
Waste Mo.	BDAT	Constituents	Total Composition	TCLP	Total Compo (mg/l		TCLP
F001 - F005	Wastewaters: Steam stripping process	Methylene Chloride		1	0.44		
Waste Type:	Wastewater Freatment Sludges See Regulations for exceptio	from Electroplating. ns.	Nonwastewate	ers		Wastewaters	
Waste No.	BDAT	Constituents	Total Composition (mg/k)	TCLP (mg/l)	Total Compo		TCLP
₹006	Nonwastewaters: Stabilization process using cement kiln dust as a binding agent. Wastewaters: Soft Hammer	Cadmium Chromium (total) Lead Wickel Silver Cyanides	, Reserved	0.066 5.2 0.51 0.32 0.72 Reserved			
Waste Type:	Bottom Sediment Sludge from Wastewaters from Wood Preser Use Creosote and/or Pentachl	ving Processes that	Nonwastewaters Wastewater		Wastewaters	.m	
Maste No.	BDAT	Constituents	Total Composition	TCLP (mg/kg)	Total Compo (mg/		TCLP
KOO1	Nonwastewaters and Wastewaters: Organic Constituents - rotary kiln incinerator Nonwastewaters: Metal Constituents - stabilization process	Napthalene Pentachlorophenol Phenanthrene Pyrene Toluene Xylenes Lead	8.0 37.0 8.0 7.3 0.14 0.16	0.51	0.1: 0.8: 0.1: 0.1: 0.1: 0.1:	8 5 4 6	
	Wastewaters: Hetal Constituents - chemical precipitation						

Waste Type:	Still Bottoms from the Disti	llation of Benzyl	Nonwastewat	ers	Wastewaters	
Waste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition (mg/l)	TCLP
K015	Nonwastewaters: Liquid Injection Incinerator (based on premise of "no ash") Wastewaters: Organic Constituents- Liquid Injection Incineration Metal Constituents - chemical precipitation	Anthracene Benzal Chloride Benza (b and/or k) Fluoranthene Phenanthrene Toluene Chromium (total)	No land disposal	No land disposal	1.0 0.28 0.29 0.27 0.15 0.32 0.44	
Waste Type:	production (K018); heavy ends ethylene dichloride in ethylo heavy ends from the distilla chloride monomer production	ds or distillation residues n tetrachloride (KO16); ation column in ethyl chloride	Nonwastewat	ers	Wastewatera	
Vaste No.	BDAT	Constituents	Total Composition (mg/kg)	TCLP	Total Composition (mg/l)	TCIP
waste Mr.						
K016	Monwastewaters and Wastewaters: Organic Constituents - rotary kiln incineration	Hexachtorobenzene Hexachtorobutadiene Hexachtorocyclopentadiene Hexachtoroethane Tetrachtoroethene	28 5.6 5.6 28 6.0		0.033 0.007 0.007 0.033 0.007	

aste Ho.	BDAT	Constituents	Total Composition (mg/kg)	TCLP	Total Composition (mg/l)	TCLP
1019	•	Bis(2-Chloroethyl)ether	5.6		0.007	
		Chlorobenzene	6.0		0.006	
		Chloroform	6.0		0.007	
		p-Dichtorobenzene		,	0.008	
		1,2.Dichloroethane	6.0		0.007	
		Fluorene			0.007	
		Hexachloroethane	2.8		0.033	
		Naphthalene ·	5.6		0.007	
		Phenanthrene	5.6		0.007	
		1,2,4,5-Tetrachlorobenzene			0.017	
		Tetrachloroethene	6.0		0.007	
		1,2,4-Trichlorobenzene	19.0		0.023	
		1,1,1-Trichloroethane	6.0		0.007	
K020		1,2-Dichloroethane	6.0		0.007	
		1,1,2,2-Tetrachloroethane	5.6		0.007	
		Tetrachloroethene	6.0		0.007	
1030		o-Dichlorobenzene			0.008	
		p-Dichlorobenzene			0.008	
		Hexachlorobutadiene	5.6		0.007	
		Hexachloroethane	28		0.033	
		Hexachloropropene	19		0,023	
		Pentachlorobenzene	28			
		Pentachloroethane	5.6		0.007	
		1,2,4,5-Tetrachlorobenzene	14		0.017	
		letrachloroethene	6.0		0.007	
		1,2,4-Trichlorobenzene	19		0.023	
iste Type:	Distillation Bottom Ters fro Phenol/Acetone from Cumene	m the Production of	Nonwastewate	ers	Vastevatera	
aste No.	BOAT	Constituents	Total Composition (mg/k)	TCLP (mg/l)	Total Composition	TCLP
r022	Norwastewaters:	Acetophenone	19			
	Organic Constituents -	Sum of Diphenylamine				
	fuel aubstitution unit	and Diphenylnitrosamine	13			
	Metal Constutuents -	Phenol	12			
	-6-6-6	Toluene	0.034			
	stabilization treatment		5.55			
	process	Chromium (total) Nickel	*****	5.2 0.32		

Aste Type:	Distillation Bottom Ters from No. of Phthalic Anhydride from No.		Nonwastewate	rs	Wastewate	rs
Jaste Mo.	BDAT	Constituents	Total Composition (mg/kg)	TCLP	Total Composition (mg/l)	TCLP
KU24	Ronwastewaters and Wastewaters: Rotary Kiin Incineration	Phthalic Acid	28		0.54	
aste Type:	Wastchater Treatment Sludge Disulfoton	from the Production of	Nonwas t ewate	rs	Wastewate	r s
aste No.	BDAT	Constituents	Total Composition (mg/kg)	TCLP	Total Composition (mg/l)	TCLP
K037	Normastewaters and Wastewaters: Rotary Kiln Incineration	Disulfoton Toluene	0.1 28		0.003 0.028	
nsta Type:	Explosives industry: Waste the Manufacturing and Proc Carbon from the Trestment ((KO45); Pink/Red Water from	essing of Explosives (KO44 of Wastewater Containing E); Spent	егв	Wastewate	· ·
laste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
K044 K045 K047	Open detonation/ open burning/chemical deactivation		No land disposal based	on reactivity.	No tand disposal base	ed on reactivity

laste Type:	Wastewater Treatment Sludge formulation, and Loading of Compounds		Nonwas t e ua t	ers	Wastewaters	
aste No.	BDAT	Constituents	Total Composition	TCLP (mg/l)	Total Composition	TCLP
	Nonwastewaters (nonreactive subcategory): Stabilization Process	Lead		0.18		
haste Type:	Heat Exchanger Bundle Clean	p Oil Emulsion Solids (KO49);	Nonwastewa	ters	Wastewater	
aste No.	BDAT	Constituents	Total Composition (mg/kg)	TCLP (mg/l)	Total Composition (mg/l)	tcrb
K048	Nonwastewaters: Organic Constituents - solvent extraction and/or incineration Metal Constituents - atabilization process Wastewaters: Organic Constituents - incineration Metal Constituents - chromium reduction,	Benzene Benzo(a)pyrene Bis(2-ethylhexyl)phthalate Chrysene Di-n-butyl Phthalate Ethylbenzene Fluorene Naphthalene Phenanthrene Phenol Pyrene Toluene	9.5 0.84 37 2.2 4.2 67 Reserved 7.7 2.7 2.0 9.5		0.011 0.047 0.043 0.043 0.060 0.011 0.050 0.033 0.039 0.047	
	lime and sulfide precipitation, and vacuum filtration	Xylenes Cyanides (total) Arsenic Chromium (total) Hickel Selenium Lead	Reserved 1.8	0.004 1.7 0.048 0.025	0.011 0.20 0.037	
K049		Anthracene Benzene Benzo(ø)pyrene Bis(2-ethylhexyl)phthalate Carbon Disulfide Chrysene 2,4-Dimethylphenol Ethylbenzene	6.2 9.5 0.84 37 2.2		0.039 0.011 0.047 0.043 0.011 0.043 0.033	,

£049	(Continued)				•
	(50),(1),12,03	Naph the Lene	Reserved		0.033
		Phenanthrene	7.7		0.039
		Phenol	2.7		0.047
		Pyrene	2.0		0.045
		Tolucne	9.5		0.011
		Xvlenes			0.011
		•	Reserved		U.V.1
	•	Cyanides (total)	1.8	0.004	
		Arsenic		0.004	
		Chromium (total)		1.7	0.020
		Nickel		0.048	
		Selenium		0.025	0.077
		Lead			0.037
K050		Benzo(a)pyrene	0.084	:	0.047
	•	Phenol	2.7		0.047
		Cyanides (total)	1.8		
		Arsenic		0.004	
		Chromium (total)		1.7	0.20
		Nickel		0.048	
		Selenium		0.025	
		Lead			0.037
K051		Acenaphthene	:		0.050
		Anthracene	6.2		0.039
		Benzene	9.5		0.011
		Benzo(a)anthracene	1.4		0.043
		Benzo(a)pyrene	0.84		0.047
		Bis(2-ethylhexyl)phthalate	37		0.043
		Chrysene	2.2		0.043
		Di-n-butyl Phthalate	4.2		0.060
		Ethylbenzene	67		0.000
		fluorene	G,		0.050
		Naphthalena	Reserved	•	0.033
		Phenanthrene	7.7		0.039
		Phenol	2.7		0.037
		Pyrene	2.0		0.045
		Yoluene	9.5		0.011
		Xylenes	Reserved		0.011
		Cyanides (total)	1.8		0.011
		Arsenic	1.0	0.004	
		Chromium (total)		1.7	0.20
		Nickel		0.048	
		Selenium		0.025	
		l.end		0.023	0.037
עמנים			0.5		د <i>د</i> د م
K052		Benzene	9.5		0.011
		Benzo(a)pyrene	0.84		0.047
		o-Cresol	2.2		0.011
		p-Cresol	0.90		0.011
		2,4-Dimethylphenol			0.033
		Ethylbenzene	67		0.011
		Naphthal ene	Reserved		0.033
		Phenanthrene	7.7		0.039
*		Phenol	2.7		0.047
		Toluene	9.5		0.011
		Xylenes	Reserved		0.011

K052	(Continued)	Cyanides (total) Arsenic Chromium (total) Nickel Selenium Lead	1.8	0.004 1.7 0.048 0.025	0.20	
faste Type:	Emission Control Dust/Sludge of Steel in Electric Furnace		Nonwastewat	ers	Hastewaters	ANNOUNCE COMMENTS OF THE PROPERTY OF THE PROPE
ingle No.	BDAŢ	Constituents	Total Composition	TCLP (mg/l)	Total Composition	TCLP
K061	Nonwastewaters: High Zinc (15% or grester) Subcategory - high temperature metals recovery unit (HIMR) Low Zinc (less than 15%) Subcategory - stabilization	Cadmium Chromium (total) Lead Mickel		0.14 5.2 0.24 0.32		
laste Type:	Spent Pickle Liquor Generate Operations of Facilities Wil Steel Industries		Nonwastewat	ers	Wastewaters	
Inste No.	BDAT	Constituents	 Total Composition	TCLP (mg/l)	Total Composition (mg/l)	TCLP
K062	Nonwastewaters and Unstewaters: Chromium Reduction, Chemical Precipitation with Sulfide, Settling, Filtering and Dewatering of Solid Residues	Chromium (total) Lead Nickel		0.094 0.037	0.032 0.04 0.44	

			· · · · · · · · · · · · · · · · · · ·		,	·
aste Type:	Emission Control Dust/Sludg Smelting	e from Secondary Lead	Nonwastewate	ers	Wastewaters	CONTROL OF STATE OF S
nste No.	BOAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
K069	Monwastewaters in Mon-Calcium Sulfate Subcategory: recycling		No land dispose based on recycl	at ing.		
aste Type:	Brine Purification Muds fro Process in Chlorine Product Propurified Brine is Not Us	ion, where Separately	Nonwastewate	ers	Wastewater	anned to the second
aste No.	BDAT	Constituents	Total Composition	ICLP (mg/l)	Total Composition (mg/l)	TCLP
K071	Norwastewaters: Solubilize mercury In sludge and convert to insoluble mercury sulfide sludge.	Mercury	·	0.025	0.030	
oste Type:	Distillation Bottoms from A	niline Production	Nonwastewat	ers	Vasteuaters	
aste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
KOBS	Nonwastewaters and Wastewaters: No Ash Subcategory - Liquid injection inciners	ptor	No land dispose based on no ast			and the second s

Aste Type: Solvent Washes and Sludges, Caustic Washes and Sludges, or Waterwashes and Sludges From the Cleaning of Tubs and Equipment Used in the Formulation of Ink Pigments, Driers, Soaps, and Stabilizers Containing Chromium and Lead

Nonwastewaters

Vastewaters

nste No.	BOAT	Constituents	Total Composition (mg/kg)	1CLP (mg/l)	Total Composition (mg/l)	ICLP
K086	Nonwastewaters and	Acetone	0.37		0.015	
	Vnstewaters,	Bis(2-ethylhexyl)phthalate	0.49	4	0.044	
	Solvent Washes	n-Butyl Alcohol	0.37	•	0.031	
	Subcategory:	Cyclohexanone	0.49		0.022	
	Organic Constituents -	1,2-Dichlorobenzene	0.49		0.044	
	Incineration	Ethyl Acetate	0.37		0.031	
	Metal Constituents ·	Ethyl Benzene	0.031		0.015	
	hexavalent chromium	Methanol	0.37		0.031	
	reduction, chemical	Methylene Chloride	0.037		0.031	
	precipitation with	Methyl Ethyl Ketone	0.37		0.031	
	excess lime, filtration	Methyl Isobutyl Ketone	0.37		0.031	
		Naph tha lene	0.49		0.044	
		Nitrobenzene	0.49		0.044	
		Toluene	0.031		0.029	
		1,1,1-Trichloroethane	0.044		0.031	
		Trichloroethylene	0.031		0.029	
		Xylenes	0.015		0.015	
		Chromium (total)		0.094	0.32	
		Lead		0.37	0.037	

Waste Type:	Decenter Tank Tar Sludge fro	m Coking Operations	Nonwastewat	ers	Vasteunters	
Unste No.	BOAT	Constituents	Total Composition (mg/kg)	TCLP (mg/l)	Total Composition (mg/l)	TCLP
K087	Nonwastewaters and	Acenaphthalene	3.4		0.028	
	Unstewaters:	Benzene	0.071		0.014	
	Organic Constituents -	Chrysene	3.4		0.028	
	incineration in	Fluoranthene	3.4		0.028	
	rotary kilo	Indeno (1,2,3-cd) pyrene	3.4		0.028	
	Hetal Constituents -	Mophthalene	3.4		0.028	
	hexavalent chromium	Phenanthrene	3.4		0.028	
	reduction, chemical	Toluene	0.65		0.008	
	precipitation with	Xyl enes	0.070		0.014	
	excess lime, filtration	Lead		0.51	0.037	

aste Type:	Untreated Wastewater from 2,4-Dichlorophenoxyacetic		Norwastewate	rs	Wastewaters	
iste No.	BOAT	Constituents	Total Composition (mg/kg)	TCLP	Total Composition (mg/l)	TCLP
K099	Nonwestewaters and	2,4-Dichlorophenoxyacetic				
	Vastewaters: Chemical oxidation	Acid Hexachlorodibenzo-p-	1.0		1.0	
	using chlorine.	dioxins	0.001	,	0.001	
		Hexachlorodibenzofurans Pentachlorodibenzo-p-	0.001	•	0.001	
		dioxins	0.001		0.001	
		Pentachlorodibenzofurans Tetrachlorodibenzo-p-	0.001		0.001	
		dioxins	0.001		0.001	
		Tetrachlorodibenzofurans	0.001		0.001	

Waste Type: Production of Vetinery Pharmaceuticals from Arsenic

or Organo Arsenic Compounds: Distillation Tar Residues from the Distillation of Aniline-Based Compounds (K101);

Residue from the Use of Activated Carbon for Discolorization (K102)

_			Monwastewaters		Hastenater	3
Jaste No.	BDAT	Constituents	Total Composition (mg/kg)	TCLP (mg/l)	Total Composition (mg/l)	TCLP
K101	Nonwestewaters and Wastewaters: Low Arsenic (less than 1% total arsenic) Subcategory - incineration in rotary kiln	Ortho-Nitroaniline Cadmium Chromium (total) Lead Nickel	.16	0.066 5.2 0.51 0.32	0.27 2.0 0.24 0.11 0.027	
K 102		Ortho-Nitrophenol Cadmium Chromium (total) Lead Nickel	13	0.066 5.2 0.51 0.32	0.026 2.0 0.24 0.11 0.027	

Production of Aniline and Nitrobenzene/Aniline
Process Residues from Aniline Extraction (K103) and
Combined Wastewater Streams Generated from
Nitrobenzene/Aniline Production (K104)

Nonwastewaters

Wastewaters

	BDAT	Constituents	Total Composition (mg/k)	TCLP	Total Composition (mg/l)	TCLP
K103	Nonwastewaters and	Aniline	5.6		4.5	
	Wastewatera:	Benzene	6.0	•	0.15	
	Organic Constituents -	2,4-Dinitrophenol	5.6		0.61	
	solvent extraction,	Nitrobenzene Phenoi	5.6 5.6		0.073 1.4	
	steam stripping, activated carbon	Prieriot	2.0		• ¹⁶	
K 104	adsorption, and	Anitine	5.6		4.5	
	Incineration	Benzene	6.0		0,15	
		2,4-Dinitrophenal	5.6		0.61	
		Nitrobenzene	5.6		0.073	
		Phenol	5.6		1.4	
		Cyanides (total)	1.8		2.7	
	of Zinc Yellow Pigments		Nonwastewate 	rs	Vostewatera	
nste No.	BDAT	Constituents		TCLP	Wastewaters Total Composition	TCLP
nste No. KON4		Constituents				TCLP
K004	BDAT No land disposal based			TCLP		
K004	No land disposal based on no generation. Oven Residue from the Produ		Total Composition	TCLP	Total Composition	

K060	No land disposal based				<u> </u>	
aste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
nste lype:	Ammonia Still Lime Studge		Nonwastewate	rs	Wastewaters	3
K036						
oste No.	BDAT	Constituents .	Total Composition	TCLP	lotal Composition	TCLP
aste Type:	Still Bottoms from Toluene in the Production of Disul		· Wonwastewate	S	Wastewaters	
k025	No land disposal based on no generation.		:			
aste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
aste Type:	Distillation Bottoms from t Nitrobenzene by the Nitrat		Nonwastewater	· ·	Wastewaters	And the second s
KOSI	No land disposal based on no generation.					
nste No.	BDAT	Constituents	Total Composition	ICLP	Total Composition	TCLP
	Aqueous Spent Antimony Catalyst Waste From Fluoromethanes Production		Nonwastewaters		Wastewaters	

ste lype:	Waste Leaching Solution from Acid Leaching of Emission Control Dust/Sludge from Secondary Lead Smelting	n Acid Leaching of e from Secondary Lead	Monwastewaters		Wastewaters		
iste No.	BOAT	Constituents	Total Composition	ICLP	Total Composition	ICLP	
K 100	No land disposal based on no generation.						